

PTO/SB/08A (04-03)

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>		Application Number	TBA 101770, 962
		Filing Date	November 24, 2003
		First Named Inventor	Stuart S.P. PARKIN
		Art Unit	TBA
		Examiner Name	TBA
		Attorney Docket Number	ARC920030058US1
Sheet	1	of	3

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
JN	1	US- 5,341,188	08-23-1994	Parkin et al.	
	2	US- 5,465,185	11-07-1995	Heim et al.	
	3	US- 5,640,343	06-17-1997	Gallagher et al.	
	4	US- 5,801,984	09-01-1998	Parkin	
	5	US- 5,841,692	11-24-1998	Gallagher et al.	
	6	US- 5,898,548	04-27-1999	Dill et al.	
	7	US- 6,028,786	02-22-2000	Nishimura	
	8	US- 6,097,625	08-01-2000	Scheuerlein	
	9	US- 6,166,948	12-26-2000	Parkin et al.	
	10	US- 6,341,053 B1	01-22-2002	Nakada et al.	
	11	US- 6,359,289 B1	03-19-2002	Parkin	
	12	US- 6,436,526 B1	08-20-2002	Odagawa et al.	
	13	US- 6,445,024 B1	09-03-2002	Kwon et al.	
	14	US- 6,518,588 B1	02-13-2003	Parkin et al.	
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	16	US- 6,522,573 B2	02-18-2003	Saito et al.	
	17	US- 6,538,861 B1	03-25-2003	Hayashi et al.	
	18	US- 6,538,919 B1	03-25-2003	Abraham et al.	
	19	US- 6,556,473 B2	04-29-2003	Saito et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner Signature	JOSEPH NGUYEN	Date Considered	04/19/05
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First Named Inventor	Stuart S.P. PARKIN	
Art Unit	TBA 2815	
Examiner Name	TBA JOSEPH NGUYEN	
Attorney Docket Number	ARC920030058US1	

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
JN	28	"Artificial Antiferromagnet (AAF) biased spin-valves [Key Benefits]", Shimadzu Application Note, Ref. NA99015.	
	29	S. Colis et al., "CoFe/Ir/CoFe Artificial Antiferromagnetic Sandwich as a Hard Magnetic Layer in Hard-Soft GMR Sensors," IEEE Transactions on Magnetics, Vol. 37, No. 4, pp. 1736-1738, July 2001	
	30	M. Julliere, "Tunneling Between Ferromagnetic Films," Physics Letters, Volume 54A, Number 3, pp. 225-226, 8 September 1975.	
	31	U.K. Klostermann et al., "Influence of a magnetic seed line on the switching behaviour of submicrometre sized magnetic tunnel junctions," J. of Phys. D: Applied Phys. 34 (2001) 2117-2122.	
	32	R. Meservey et al., "Spin-polarized electron tunneling," PHYSICS REPORTS (Review Section of Physics Letters) 238, No. 4 (1994), pp. 173-243.	
	33	H.A.M van den Berg et al., "Magnetic Tunnel Sensors with Co-Cu Artificial Antiferromagnetic (AAF) Hard Subsystem," IEEE Transactions on Magnetics, Vol. 35, No. 5, pp. 2892-2894, September 1999.	
	34	C.-Y. You et al., "Enhancement of switching stability of tunneling magnetoresistance systems with artificial ferrimagnets," Journal of Applied Physics, Volume 92, Number 7, pp. 3886-3889, 1 October 2002.	
	35	S. Yuasa et al., "Spin-Polarized Resonant Tunneling In Magnetic Tunnel Junctions," Science, Vol. 297, pp. 234-237, 12-July-2002.	

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